

Samuel Raetz

List of Publications by Year in descending order

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papers

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all docs

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docs citations

29
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear generation of a zero group velocity mode in an elastic plate by non-collinear mixing. Ultrasonics, 2022, 119, 106589.	2.1	8
2	In-Situ Imaging of a Light-Induced Modification Process in Organo-Silica Films via Time-Domain Brillouin Scattering. Nanomaterials, 2022, 12, 1600.	1.9	3
3	Growing phenotype-controlled phononic materials from plant cells scaffolds. Applied Materials Today, 2021, 22, 100934.	2.3	2
4	Estimation via Laser Ultrasonics of the Ultrasonic Attenuation in a Polycrystalline Aluminum Thin Plate Using Complex Wavenumber Recovery in the Vicinity of a Zero-Group-Velocity Lamb Mode. Applied Sciences (Switzerland), 2021, 11, 6924.	1.3	2
5	Nonthermal Transport of Energy Driven by Photoexcited Carriers in Switchable Solid States of GeTe. Physical Review Applied, 2021, 16, .	1.5	0
6	3D characterization of individual grains of coexisting high-pressure H ₂ O ice phases by time-domain Brillouin scattering. Journal of Applied Physics, 2021, 130, .	1.1	7
7	Photoacoustic 3-D imaging of polycrystalline microstructure improved with transverse acoustic waves. Photoacoustics, 2021, 23, 100286.	4.4	13
8	Laser ultrasonics in a multilayer structure: Plane wave synthesis and inverse problem for nondestructive evaluation of adhesive bondings. Journal of the Acoustical Society of America, 2021, 150, 2076-2087.	0.5	6
9	Laser ultrasonics in a multilayer structure: Semi-analytic model and simulated examples. Journal of the Acoustical Society of America, 2021, 150, 2065-2075.	0.5	3
10	Evaluation of Optical and Acoustical Properties of Ba _{1-x} Sr _x TiO ₃ Thin Film Material Library via Conjugation of Picosecond Laser Ultrasonics with X-ray Diffraction, Energy Dispersive Spectroscopy, Electron Probe Micro Analysis, Scanning Electron and Atomic Force Microscopies. Nanomaterials, 2021, 11, 3131.	1.9	4
11	Cumulative fatigue damage in thin aluminum films evaluated non-destructively with lasers via zero-group-velocity Lamb modes. NDT and E International, 2020, 116, 102323.	1.7	13
12	Nondestructive evaluation of structural adhesive bonding using the attenuation of zero-group-velocity Lamb modes. Applied Physics Letters, 2020, 116, .	1.5	13
13	Imaging grain microstructure in a model ceramic energy material with optically generated coherent acoustic phonons. Nature Communications, 2020, 11, 1597.	5.8	24
14	Ultrafast light-induced shear strain probed by time-resolved x-ray diffraction: Multiferroic BiFeO_3 as a case study. Physical Review B, 2020, 102, .	1.1	9
15	High-Frequency Elastic Coupling at the Interface of van der Waals Nanolayers Imaged by Picosecond Ultrasonics. ACS Nano, 2019, 13, 11530-11537.	7.3	24
16	Elastic anisotropy and single-crystal moduli of solid argon up to 64 GPa from time-domain Brillouin scattering. Physical Review B, 2019, 99, .	1.1	10
17	Evaluation of the Structural Phase Transition in Multiferroic $(\text{Bi}_{1-x}\text{Pr}_x)(\text{Fe}_{0.95}\text{Mn}_{0.05})\text{O}_3$ Thin Films by A Multi-Technique Approach Including Picosecond Laser Ultrasonics. Applied Sciences (Switzerland), 2019, 9, 736.	1.3	3
18	Nondestructive characterization of polycrystalline 3D microstructure with time-domain Brillouin scattering. Scripta Materialia, 2019, 166, 34-38.	2.6	16

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19	Characterization of Progressive Fatigue Damage in Solid Plates by Laser Ultrasonic Monitoring of Zero-Group-Velocity Lamb Modes. <i>Physical Review Applied</i> , 2018, 9, .	1.5	21
20	<i>In situ</i> imaging of the dynamics of photo-induced structural phase transition at high pressures by picosecond acoustic interferometry. <i>New Journal of Physics</i> , 2017, 19, 053026.	1.2	7
21	Longitudinal sound velocities, elastic anisotropy, and phase transition of high-pressure cubic H_2O ice to 82 GPa. <i>Physical Review B</i> , 2017, 96, .	1.1	22
22	Beam shaping to enhance zero group velocity Lamb mode generation in a composite plate and nondestructive testing application. <i>NDT and E International</i> , 2017, 85, 13-19.	1.7	16
23	Spatial Laplace transform for complex wavenumber recovery and its application to the analysis of attenuation in acoustic systems. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	23
24	Picosecond laser ultrasonics for imaging of transparent polycrystalline materials compressed to megabar pressures. <i>Ultrasonics</i> , 2016, 69, 259-267.	2.1	19
25	Investigation of interfacial stiffnesses of a tri-layer using Zero-Group Velocity Lamb modes. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3202-3209.	0.5	43
26	Effect of refracted light distribution on the photoelastic generation of zero-group velocity Lamb modes in optically low-absorbing plates. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3522-3530.	0.5	11
27	Acoustic beam steering by light refraction: Illustration with directivity patterns of a tilted volume photoacoustic source. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 4381-4392.	0.5	7
28	Oblique laser incidence to select laser-generated acoustic modes. <i>Journal of Physics: Conference Series</i> , 2011, 278, 012030.	0.3	0
29	Effect of laser beam incidence angle on the thermoelastic generation in semi-transparent materials. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3691-3697.	0.5	10